



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,599	09/22/2005	Juergen Breitenbacher	10191/3583	6564

26646 7590 07/12/2007
KENYON & KENYON LLP
ONE BROADWAY
NEW YORK, NY 10004

EXAMINER

NGUYEN, XUAN LANT

ART UNIT	PAPER NUMBER
----------	--------------

3683

MAIL DATE	DELIVERY MODE
-----------	---------------

07/12/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/524,599

Applicant(s)

BREITENBACHER ET AL.

Examiner

Lan Nguyen

Art Unit

3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 14-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 May 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>2/14/05</u> . | 6) <input checked="" type="checkbox"/> Other: <u>drawing</u> . |

DETAILED ACTION

Drawings

1. The drawings were received on 5/11/07. These drawings are approved.
2. It is suggested that the boxes in figures 7 and 8 be labeled with the descriptions instead of numbers so that it would be easy to quickly understand the instant invention.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 14-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hartmann et al. (USP 5388896) in view of Schubert (USP 6030055).

Re: claim 14, Hartmann shows a method for braking two wheels of a vehicle, as in the present invention, comprising: linking a first value of a first brake pressure in a first wheel-brake cylinder allocated to a first wheel 50 of the two wheels with a second value of a second brake pressure in a second wheel-brake cylinder allocated to a second wheel 50 of the two wheels, wherein the linking is given on the basis of hydraulic pressures at respective intake valves including a first intake valve 5a and a second intake valve 5b, as stated in the Abstract wherein the pressures of the two

valves are employed in the controlling method. Hartmann lacks the concept of employing a differential pressure in the first intake valve and in the second intake valve in the controlling method. Schubert teaches the concept of employing a differential pressure in an intake valve in a control method instead of using pressure values in order to increase accuracy in a pressure controlling method in column 1, lines 55-end. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Hartmann's method to employ the differential pressure of an intake valve in a controlling method as taught by Schubert instead of using pressure values in order to increase accuracy in a pressure controlling method.

Re: claims 15-19, Schubert further teaches the concept of using characteristic curves of differential pressure versus current in controlling the intake valve in figures 6a and 6b. As modified by Schubert, Hartmann's method would be employing characteristic curves as taught by Schubert for the first and the second intake valves in order to increase accuracy in the controlling method.

Re: claim 20, Hartmann further teaches the concept of setting a limit in the difference between the pressures of the intake valves 5a, 5b in the Abstract, lines 4-7.

Re: claim 21, Hartmann teaches the step of the linking indicates a difference between the first pressure and the second pressure. As modified by Schubert, Hartmann's method would comprise the step of indicating a difference between the first pressure differential and the second pressure differential.

Re: claims 22 and 23, Hartmann further teaches the concept of taking into consideration the vehicle speed and transverse acceleration in the controlling scheme in

Art Unit: 3683

controlling the two wheels 5a and 5b which belong to the same axle as stated in the Abstract.

Re: claim 24, Hartman shows a device for braking two wheels of a vehicle, as in the present invention, comprising: a first wheel brake cylinder allocated to a first wheel 50 of the two wheels; a second wheel brake cylinder allocated to a second wheel 50 of the two wheels; a first intake valve 5a allocated to the first wheel brake cylinder; a second intake valve 5b allocated to the second wheel brake cylinder; and a logic arrangement 1 for linking a first hydraulic pressure at the first intake valve and a second hydraulic pressure at the second intake valve, as stated in the Abstract wherein the pressures are employed for controlling the brakes. Hartmann lacks the concept of employing a differential pressure in the first intake valve and in the second intake valve in the device. Schubert teaches the concept of employing a differential pressure in an intake valve in a control device instead of using pressure values in order to increase accuracy in a pressure controlling device in column 1, lines 55-end. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Hartmann's device to employ the differential pressure of an intake valve in a controlling device as taught by Schubert instead of using pressure values in order to increase accuracy in a pressure controlling device.

Re: claims 25 and 26, Schubert further shows that the intake valve is a differential-pressure regulating valve and that the valve is control by a characteristic curve of differential pressure versus current. As modified by Schubert, Hartmann's device would comprise first and second the intake valves to be differential-pressure

Art Unit: 3683

regulating valves and that the valves would be controlled by a characteristic curves of differential pressure versus current as taught by Schubert in figures 6a and 6b in order to improve accuracy.

Response to Arguments

5. Applicant's argument and submission of the certified translation of the priority document Germany 102 37 002.8 have overcome the rejection based on Oishi. The rejection is hereby withdrawn. Upon further consideration, a new rejection is present above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Nguyen whose telephone number is (571) 272-7121. The examiner can normally be reached on Monday through Friday, 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Xuan Lan Nguyen/ 7/5/07
Primary Examiner
Art Unit 3683

REPLACEMENT SHEET
S.N. 10/524,399

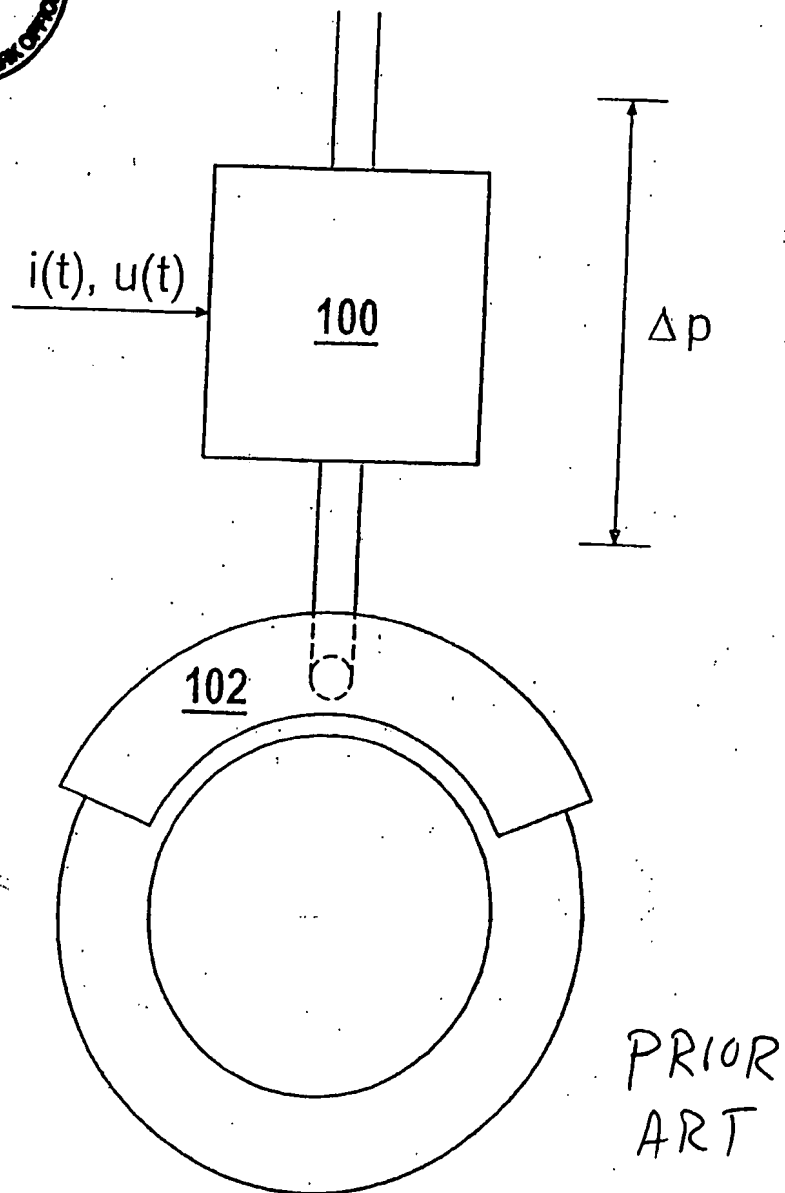


FIG. 1

approved
XUN
7/5/07